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FIG. 1A

Met Glu Leu Lys Thr Glu Glu Glu Glu Val Gly Gly Val Gln Pro Val Ser Ile
Pro Val Ser Ile

Gln Ala Phe Ala Ser Ser Ser Thr Leu His Gly Leu Ala His Ile Phe Ser Tyr
Gln Ala Phe Ala Ser Ser Ser Thr Leu His Gly Met Ala His Ile Phe Ser Tyr

Glu Arg Leu Ser Leu Lys Arg Ala Leu Trp Ala Leu Cys Phe Leu Gly Ser Leu
Glu Arg Leu Ser Leu Lys Arg Ala Leu Trp Ala Leu Cys Phe Leu Gly Ser Leu

Ala Val Leu Leu Cys Val Cys Thr Glu Arg Val Gln Tyr Tyr Phe Cys Tyr His
Ala Val Leu Leu Cys Val Cys Thr Glu Arg Val Gln Tyr Tyr Phe His Tyr His

His Val Thr Lys Leu Asp Glu Val Ala Ala Ser Gln Leu Thr Phe Pro Ala Val
His Val Thr Lys Leu Asp Glu Val Ala Ala Ser Gln Leu Thr Phe Pro Ala Val

Thr Leu Cys Asn Leu Asn Glu Phe Arg Phe Ser Gln Val Ser Lys Asn Asp Leu
Thr Leu Cys Asn Leu Asn Glu Phe Arg Phe Ser Gln Val Ser Lys Asn Asp Leu

Tyr His Ala Gly Glu Leu Leu Ala Leu Leu Asn Asn Arg Tyr Glu Ile Pro Asp
Tyr His Ala Gly Glu Leu Leu Ala Leu Leu Asn Asn Arg Tyr Glu Ile Pro Asp

Thr Gln Met Ala Asp Glu Lys Gln Leu Glu Ile Leu Gln Asp Lys Ala Asn Phe
Thr Gln Met Ala Asp Glu Lys Gln Leu Glu Ile Leu Gln Asp Lys Ala Asn Phe

Arg Ser Phe Lys Pro Lys Pro Phe Asn Met Arg Glu Phe Tyr Asp Arg Ala Gly
Arg Ser Phe Lys Pro Lys Pro Phe Asn Met Arg Glu Phe Tyr Asp Arg Ala Gly

His Asp Ile Arg Asp Met Leu Leu Ser Cys His Phe Arg Gly Glu Ala Cys Ser
His Asp Ile Arg Asp Met Leu Leu Ser Cys His Phe Arg Gly Glu Val Cys Ser

Ala Glu Asp Phe Lys Val Val Phe Thr Arg Tyr Gly Lys Cys Tyr Thr Phe Asn
Ala Glu Asp Phe Lys Val Val Phe Thr Arg Tyr Gly Lys Cys Tyr Thr Phe Asn

Ser Gly Gln Asp Gly Arg Pro Arg Leu Lys Thr Met Lys Gly Gly Thr Gly Asn
Ser Gly Arg Asn Gly Arg Pro Arg Leu Lys Thr Met Lys Gly Gly Thr Gly Asn

Gly Leu Glu Ile Met Leu Asp Ile Gln Gln Asp Glu Tyr Leu Pro Val Trp Gly
Gly Leu Glu Ile Met Leu Asp Ile Gln Gln Asp Glu Tyr Leu Pro Val Trp Gly

Glu Thr Asp Glu Thr Ser Phe Glu Ala Gly Ile Lys Val Gln Ile His Ser Gln
Glu Thr Asp Glu Thr Ser Phe Glu Ala Gly Ile Lys Val Gln Ile His Ser Gln

Asp Glu Pro Pro Phe Ile Asp Gln Leu Gly Phe Gly Val Ala Pro Gly Phe Gln
Asp Glu Pro Pro Phe Ile Asp Gln Leu Gly Phe Gly Val Ala Pro Gly Phe Gln



FIG. 1B

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Thr Phe Val Ser Cys Gln Glu Gln Arg Leu Ile Tyr Leu Pro Ser Pro Trp Gly
Thr Phe Val Ala Cys Gln Glu Gln Arg Leu Ile Tyr Leu Pro Pro Pro Trp Gly

Thr Cys Asn Ala Val Thr Met Asp Ser Asp Phe Phe Asp Ser Tyr Ser
Thr Cys Lys Ala Val Thr Met Asp Ser Asp Leu Asp Phe Phe Asp Ser Tyr Ser

Ile Thr Ala Cys Arg Ile Asp Cys Glu Thr Arg Tyr Leu Val Glu Asn Cys Asn
Ile Thr Ala Cys Arg Ile Asp Cys Glu Thr Arg Tyr Leu Val Glu Asn Cys Asn

Cys Arg Met Val His Met Pro Gly Asp Ala Pro Tyr Cys Thr Pro Glu Gln Tyr
Cys Arg Met Val His Met Pro Gly Asp Ala Pro Tyr Cys Thr Pro Glu Gln Tyr

Lys Glu Cys Ala Asp Pro Ala Leu Asp Phe Leu Val Glu Lys Asp Gln Glu Tyr
Lys Glu Cys Ala Asp Pro Ala Leu Asp Phe Leu Val Glu Lys Asp Gln Glu Tyr

Cys Val Cys Glu Met Pro Cys Asn Leu Thr Arg Tyr Gly Lys Glu Leu Ser Met
Cys Val Cys Glu Met Pro Cys Asn Leu Thr Arg Tyr Gly Lys Glu Leu Ser Met

Val Lys Ile Pro Ser Lys Ala Ser Ala Lys Tyr Leu Ala Lys Lys Phe Asn Lys
Val Lys Ile Pro Ser Lys Ala Ser Ala Lys Tyr Leu Ala Lys Lys Phe Asn Lys

Ser Glu Gln Tyr Ile Gly Glu Asn Ile Leu Val Leu Asp Ile Phe Phe Glu Val
Ser Glu Gln Tyr Ile Gly Glu Asn Ile Leu Val Leu Asp Ile Phe Phe Glu Val

Leu Asn Tyr Glu Thr Ile Glu Gln Lys Lys Ala Tyr Glu Ile Ala Gly Leu Leu
Leu Asn Tyr Glu Thr Ile Glu Gln Lys Lys Ala Tyr Glu Ile Ala Gly Leu Leu

Gly Asp Ile Gly Gly Gln Met Gly Leu Phe Ile Gly Ala Ser Ile Leu Thr Val
Gly Asp Ile Gly Gly Gln Met Gly Leu Phe Ile Gly Ala Ser Ile Leu Thr Val

Leu Glu Leu Phe Asp Tyr Ala Tyr Glu Val Ile Lys His Arg Leu Cys Arg Arg
Leu Glu Leu Phe Asp Tyr Ala Tyr Gly Val Ile Lys His Lys Leu Cys Arg Arg

Gly Lys Cys Gln Lys Glu Ala Lys Arg Ser Ser Ala Asp Lys Gly Val Ala Leu
Gly Lys Cys Gln Lys Glu Ala Lys Arg Ser Ser Ala Asp Lys Gly Val Ala Leu

Ser Leu Asp Asp Val Lys Arg His Asn Pro Cys Glu Ser Leu Arg Gly His Pro
Ser Leu Asp Asp Val Lys Arg His Asn Pro Cys Glu Ser Leu Arg Gly His Pro

Ala Gly Met Thr Tyr Ala Ala Asn Ile Leu Pro His His Pro Ala Arg Gly Thr
Ala Gly Met Thr Tyr Ala Ala Asn Ile Val Pro His His Pro Ala Arg Gly Thr

Phe Glu Asp Phe Thr Cys
Phe Glu Asp Phe Thr Cys

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REPLACEMENT SHEET



FIG. 2A

FaNaCh MEC-4	1	MSWMONLKNOHLRDPSEYMSOVYGDPLAYLQENTKFTEREYEDFGYGEFCNSESSEV	MKYTSAAATKPGVFP EHKHOHAMMRNRYHPHHCNY
ASIC MDEG FaNaCh MEC-4	1	MEIKTEEEVGGPOPVSIQAFASSTLHGDAHIFSYERLSEKRALWAICFEGSL ADLKESPSE. GSOPSSIOIFANSTLHGIRHIFVYPLTTRRVLWAIAEFGSL 34 SDNRSAIDF.....IAELSESNAHGAKLVT.SRDTKRKVWAALVAGGF 61 OCELITGEFDPKLLPYDKRLAWHFKEFCYKESAHGIP. IIGEPNVYRYAYVVL EFGCM	M I
ASIC MDEG FaNaCh MEC-4	55	ELLVCVCIERVQVYFCYHHVTKLDEVAASOLTFFPAVTLCLNH EFRFSQVSKNDLYHAG 54 ELLVPESSERVSVYFVYOHVTKDEEVAAOELVFPVAVTLCLNLGERFSRITLUDLYHAG 79 TAAITLSSILLARKVLOBOVMELSEIKDSMPVQVPSVSNCHIEPISLRIERR. DIVENN 120 IRELYLNLOSVEKKNRNREKTVOLKFDTA. PEPATLCLNLN PZAGSLATSVDLVVRTLS	ELLALLGNRYZIPDIOADEKQLEILLOOKANFRI ELLALLDIVNLHIDPDPHIAADPTVLENLROKAREK ESONLETWLRFLOKFRIFEODSIFMNSPRAFYENL ELWYLOGGTPTEDPNFLEAMGFBTATDEVAIV
ASIC MDEG FaNaCh MEC-4	146	SEKPKPFNAH.....REFYDRAGHDLDOMLSCFFHGBACSAE DFKVVF TGVGKCYTF 145 HAKPKGFESH.....GEFLHRVGHDLLEDMJLYCMFNGGEECGHEDQFDTVF.TGVGKCYMF 168 GODAKKLS.....HLELEDMCHCREFNRRLCHVS. HPSFTFEDGNVFNCEFTF 419 TKAKENIMFAMATLSMCDREERGSTTKREBEVYHKCSSENGKACCDIEADFLT HDPVSGSCSTE	WVGETDETSEFEAGLKVIOHSQD WVGETDETSEFEAGLKVIOHSQS GTYGVMNFDMNLSAGVRLVLAHAPG JL TTEAGVRLTIDKE
ASIC MDEG FaNaCh MEC-4	198	NSGDDGPRRLKFTKGGTGNGLEIMLDIOODEYLP 197 NSGDDGMPPLTTKGGTGNGLEIMLDIOODEYLP 212 NSGOL.....RLQMHATGPERGLSIFESVKKDDPLP 479 H..HNRVTNLTSEBGGPMYGLRANVYANA SIVTP	WVGETDETSEFEAGLKVIOHSQD WVGETDETSEFEAGLKVIOHSQS GTYGVMNFDMNLSAGVRLVLAHAPG JL TTEAGVRLTIDKE
ASIC MDEG FaNaCh MEC-4	254	EPPFIOLGFGVAPGFQTFVSCQEORLLYLPSPWGLTCMAVTDSDS OFFDS 253 EPPFIOLGFGVAPGFQTFVATOEORLLYLPSPWGLTCMAVTDSDS OFFDS 268 SMPSPVHGLDMPGVS SVGLKA I LHLRLPYPYGNCTNDMNGIKQYK...VLEFFACLO 526 DFEFPDPTFGVSAPTGVVSFSLRLRKLRLAPYGVGDCVPOGKTSQY.IYSNYEYSVEGCRYR	VSITACRI VSITACRI VSITACRI VSITACRI



FIG. 2B

ASIC	311	DCETRYLVENCNCRMVHMPGDAP	CTPEQ
MDEG	310	DCETRYLVENCNCRMVHMPGDAP	CTPEQ
FaNaCh	325	LCKQRL	CTPEQ
MEC-4	586	SCFQQL	CTPEQ
ASIC	340	YKECA	CTPEQ
MDEG	339	HKECA	CTPEQ
FaNaCh	385	YLA	CTPEQ
MEC-4	622	CL	CTPEQ
ASIC	381	SKASAKYLAKKFNKSEIO	CTPEQ
MDEG	380	SKTSAKYLEKKFNKSEK	CTPEQ
FaNaCh	445	OAGONHFMKT	CTPEQ
MEC-4	670	YIGENI	CTPEQ
ASIC	404	LVLDIFFEV	CTPEQ
MDEG	403	LVLDIFFEA	CTPEQ
FaNaCh	505	LRLE	CTPEQ
MEC-4	687	A	CTPEQ
ASIC	464	CRRGCK	CTPEQ
MDEG	463	LDL	CTPEQ
FaNaCh	565	NSEKGL	CTPEQ
MEC-4	747	EHNYS	CTPEQ

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FIG. 3

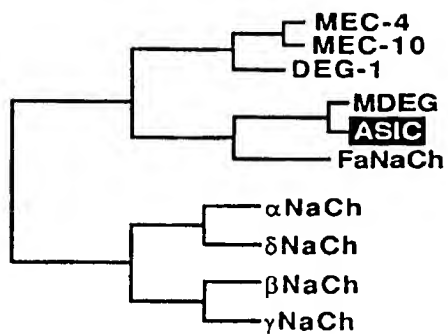


FIG. 4

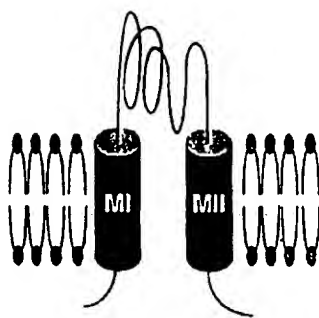




FIG. 5A

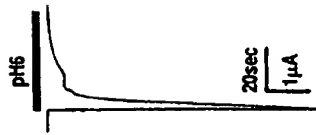


FIG. 5B

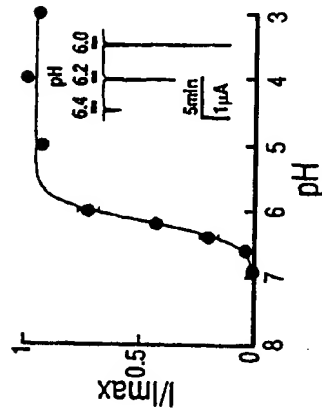


FIG. 5C

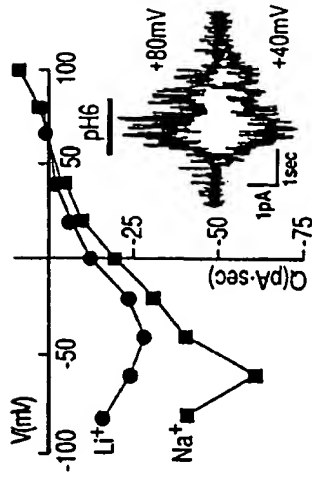


FIG. 5D

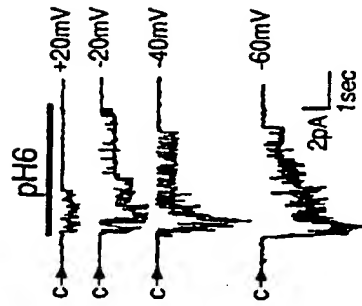


FIG. 5E

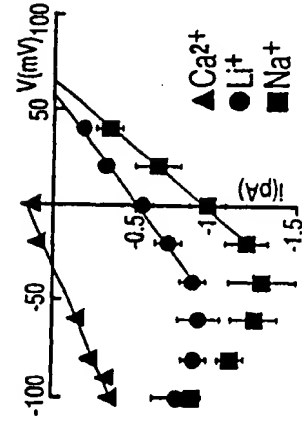


FIG. 5F

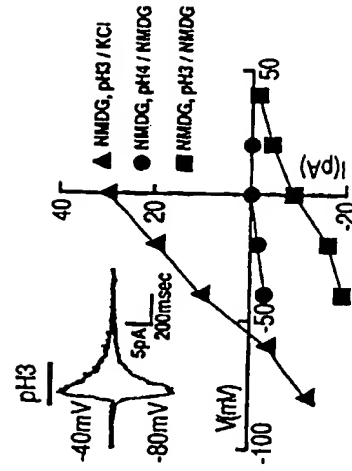




FIG. 6A

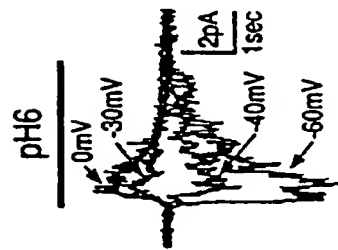


FIG. 6B

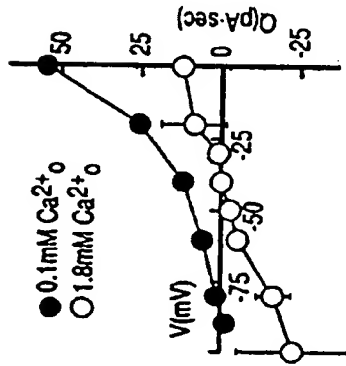


FIG. 6C

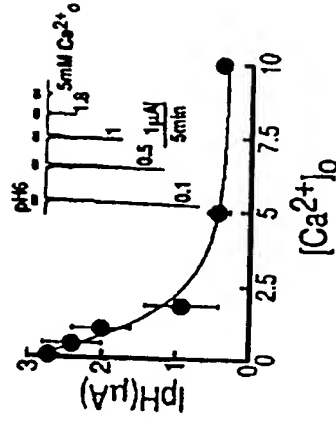


FIG. 6D

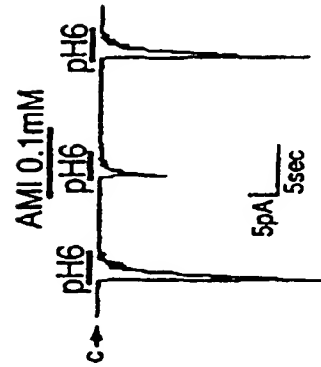


FIG. 6E

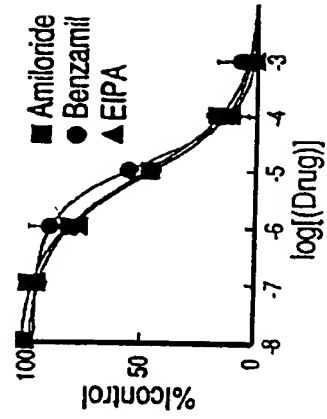




FIG. 7A

FIG. 7B

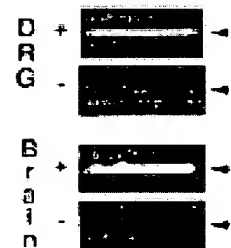
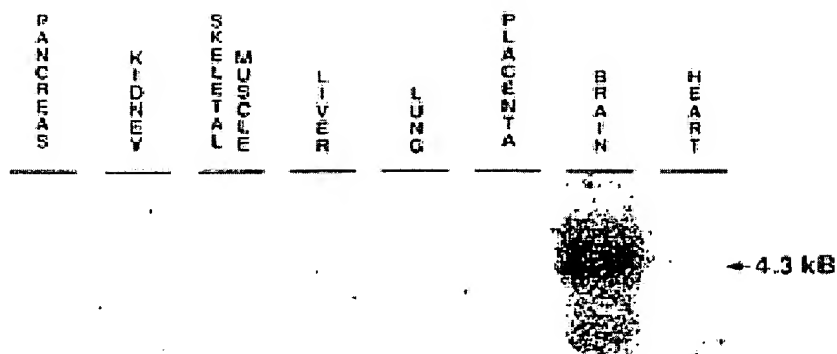




FIG. 8A



FIG. 8B

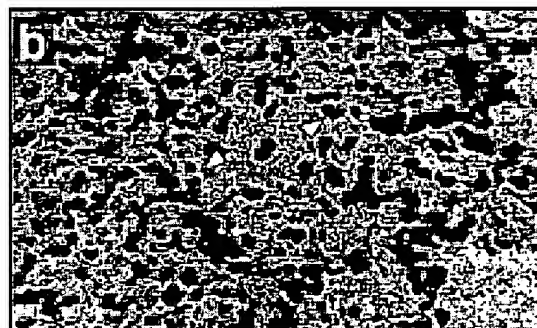


FIG. 8C

